

ANS PL2 (Telematics) NAD - Modem HW/RF Engineer

담당 업무

**Modem HW/RF Engineer in Architecture and Networking Solutions
Product Line 2 (Telematics) Korea**

Position Overview: The Senior Hardware/RF Engineer to join our Telematics R&D team, responsible for developing next-generation Telematics Control Units (TCUs) for global automotive OEMs. We deliver high-performance hardware platforms that integrate cellular (LTE/5G), GNSS, Wi-Fi, Ethernet, and in-vehicle network technologies, with strict adherence to automotive standards.

This role combines core hardware development with RF design, validation, and integration, ensuring optimal wireless performance under challenging automotive environments.

Responsibilities:

- Design, develop, and validate automotive-grade hardware including schematics and multi-layer PCB layouts.
- Integrate and evaluate RF components: cellular modems, GNSS modules, Wi-Fi/Bluetooth transceivers, antennas, and RF filters.
- Perform RF layout optimization, transmission line matching, and antenna placement analysis for optimal signal integrity and minimal interference.
- Conduct RF testing and troubleshooting using spectrum analyzers, network analyzers, and RF chambers.
- Support EMC and RF compliance testing (e.g., CISPR 25, ISO 11452) in collaboration with test and certification teams.
- Collaborate with software, system, validation, and mechanical engineers to ensure system-level integration and performance.
- Interface with component vendors for RF tuning, design reviews, and module certification support.
- Support hardware bring-up, root cause analysis, and failure resolution across development and validation phases.
- Create and maintain technical documentation: schematics, BOMs, validation reports, and design guides.



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지원자 프로필

- Bachelor's or Master's degree in Electrical Engineering, RF Engineering, or related discipline.
- 7+ years of experience in automotive or embedded hardware development, with at least 3 years focused on RF systems.
- Strong understanding of RF fundamentals: impedance matching, S-parameters, return loss, and radiation patterns.
- Experience with tools such as Altium, OrCAD, ADS, CST, or HFSS for hardware and RF simulation/design.
- Hands-on experience with oscilloscopes, spectrum analyzers, VNA, signal generators, and RF measurement tools.
- Familiarity with cellular (LTE/5G), GNSS, Wi-Fi, and Bluetooth modules and RF design practices.
- Knowledge of vehicle network protocols (CAN, LIN, Ethernet) and power management systems.

채우 조건

Preferred Qualifications:

- Experience designing and tuning automotive antennas (shark-fin, PCB antennas, or embedded types).
- Familiarity with SAR testing, OTA validation, and module certification processes (FCC, PTCRB, GCF).
- Knowledge of secure hardware design: EMI shielding, secure boot elements, or hardware cybersecurity.
- Prior experience in mass production hardware validation, DFM (Design for Manufacturing), and automotive-grade reliability testing.
- Exposure to automotive standards such as ISO 26262 (functional safety), AEC-Q100, and ASPICE hardware process integration.

Application Form Submission:

- Please kindly submit your Resume as Application Form.
- Application Form Download Link
: <https://c.smartrecruiters.com/sr-company-attachments-prod-aws-dc/5/61711815ada8a04e3608a8c0/e347e296-af65-4fcb-9fa1-11b1b48b19d2?r=s3-eu-central-1>

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기업 소개

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2024, Continental generated sales of €39.7 billion and currently employs around 190,000 people in 55 countries and markets.

The Automotive group sector comprises technologies for passive safety, brake, chassis, motion and motion control systems. Innovative solutions for assisted and automated driving, display and operating technologies, as well as audio and camera solutions for the vehicle interior, are also part of the portfolio, as is intelligent information and communication technology for the mobility services of fleet operators and commercial vehicle manufacturers. Comprehensive activities relating to connectivity technologies, vehicle electronics and high-performance computers round off the range of products and services.